

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A shape memory polymeric material characterized by a T_g exceeding room temperature whose rubber modulus and elasticity are derived substantially from physical crosslinks comprising a blend of a crystalline polymer selected from the group consisting of poly(vinylidene fluoride), polyglycolides, polylactide and copolymers thereof, poly(hydroxybutyrate), poly(ethylene glycol), polyethylene, polyethylene-co-vinyl acetate, poly(vinyl chloride), poly(vinylidene chloride) and copolymers of poly(vinylidene chloride) and poly(vinyl chloride) with an amorphous polymer selected from the group consisting of poly(vinyl acetate), poly(methyl acrylate), poly(ethyl acrylate), atactic poly(methyl methacrylate), isotactic poly(methyl methacrylate) and syndiotactic poly(methyl methacrylate).

2. (Withdrawn) A shape memory polymeric material according to claim 1 wherein said blend is of amorphous poly(vinyl acetate) and semicrystalline polylactide.

3. (Original) A shape memory polymeric material according to claim 1 wherein said blend is of amorphous polyvinyl acetate and crystalline poly(vinylidene fluoride).

4. (Withdrawn) A shape memory polymeric material according to claim 1 wherein said blend is of crystalline poly(vinylidene fluoride) and amorphous poly(methyl methacrylate).

5. (Withdrawn) A shape memory polymeric material according to claim 1 wherein said blend is of crystalline poly(vinylidene chloride) and amorphous poly(vinyl acetate).

6-10. (Canceled)

11. (Original) An impression material for molding, duplication, rapid prototyping and dentistry prepared from a shape memory polymer according to claim 1.

12. (Original) A temperature sensor prepared from a shape memory polymer according to claim 1.

13. (Original) A heat sensitive seal prepared from a shape memory polymer according to claim 1.

14. (Original) A large strain, large force actuator prepared from a shape memory polymer according to claim 1.

15. (Withdrawn) A shape memory polymeric material according to claim 1 wherein the polylactide copolymers are selected from the group consisting of poly(D,L-lactide), poly(lactide-co-glycolide), poly(lactide-co-caprolactone), poly(lactide-co-1,5-dioxepan-2-one), and poly(lactide-co-trimethylene carbonate).

16. (Previously Presented) A shape memory polymeric material according to claim 1, further comprising a plasticizer, particulate material, or a combination thereof.

17-18. (Canceled)